OUT-71692

SECRET

1971 FEB 5 17 14Z

S E C R E T 051650Z FEB 71 CITE [redacted] 0295 25X1
[redacted] 25X1

SUBJECT: EVAL OF OLD HEAD MSG G-178; 28 JAN 71

1. IMAGE QUALITY: THE IMAGE QUALITY AND INTERPRETATION SUITABILITY OF THE CLOUD FREE PHOTOGRAPHY IS GOOD. MOST IMAGERY MAINTAINS EDGE SHARPNESS ABOVE 25X. CLOUDS OBSCURE 20 PCT OF ENTIRE MSN. THIS IS THE FIRST OLD HEAD TO UTILIZE A WRATTEN-12 FILTER (SEE PARA 5 FOR COMMENTS).

2. MSN DATA:
   A. MSN: G-178; DATE: 28 JAN 71
   B. CAM: IRIS II; UNIT: 8005
   C. A/C: 340
   D. CAM MODE: STEREO
   E. VEHICLE T/O: 1150Z; CAM/ON: 1403Z
   F. FILM: 3414
   G. CHEMISTRY: MX819-1; PROCESS FAC: NRTSC
   H. AVG GAMMA ORIG NEG: 1.97
   I. EXPOSURE SLIT: 0.060 IN.
   J. FILTER: W-12
   K. SPEED (AEI) AVG: 3.14

3. ORIG NEG:
   A. EXPOSURE: GOOD, SEE PARA 5.

DISTRIBUTION
CY OFFICE PI
1 [illegible]
2 [illegible]
3 [illegible]
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6 [illegible]
10AB
TBG/IEB
25X1

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   B. DENSITY: MEDIUM; CONTRAST: MEDIUM.
   C. IMAGED DEGRADATIONS: NONE NOTED.
   D. PHYSICAL DEGRADATIONS: EMULSION LIFTS OCCURRED ON MANY FRAMES THROUGHOUT THE MSN. TITLING RESIDUE FLAKES ARE PRESENT WITHIN THE FORMAT OF SOME FRAMES.
   E. DATA RECORD EQUIP: FUNCTIONED THROUGHOUT THE MSN.
   F. OTHER: LAST TITLED FR 1200; COUNTER 1203; BIAS CONSTANT THROUGHOUT. A TOTAL OF 33 AFT FRS WERE DROPPED AT RANDOM THROUGHOUT THE MSN. THE CAUSE OF THIS PROBLEM IS UNKNOWN; HOWEVER, FILM MISMETERING IS ASSOCIATED WITH A FEW OF THESE FRS.

4. POSITIVES: GOOD FOR INTERPRETATION PURPOSES.

5. REMARKS: AN EXPOSURE EVALUATION OF THIS MSN INDICATES A 0.25 STOP UNDEREXPOSURE AT THE BEGINNING AND 0.25 STOP OVEREXPOSURE AT THE END. THIS REPRESENTS THE BEST POSSIBLE FIXED EXPOSURE FOR THE MISSION PARAMETERS; I.E., 30 TO 50 DEGREES SOLAR ELEVATION RANGE, A W-12 FILTER, A 0.06 IN. SLIT WIDTH, AND 3414 FILM TYPE. THE IMAGE QUALITY OF THIS MSN IS COMPARABLE TO PAST MISSIONS WHICH USED A W-23A FILTER AND 3414 FILM TYPE. TO FURTHER EVALUATE THE EXPOSURE PARAMETERS OF THE OLD HEAD PROGRAM, WE SUGGEST A FUTURE MSN BE FLOWN USING W-12 FILTER,

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3414 FILM TYPE, AND A 0.06 IN. SLIT WIDTH. THIS MSN SHOULD BE FLOWN PRIOR TO 16 FEB 71 AND PHOTO ACQUISITION SHOULD BEGIN AT A

SECRET

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SOLAR ELEVATION OF 20 DEGREES (0800 LOCAT TIME).
EOM
GP-1
S E C R E T

--END OF MESSAGE--

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